

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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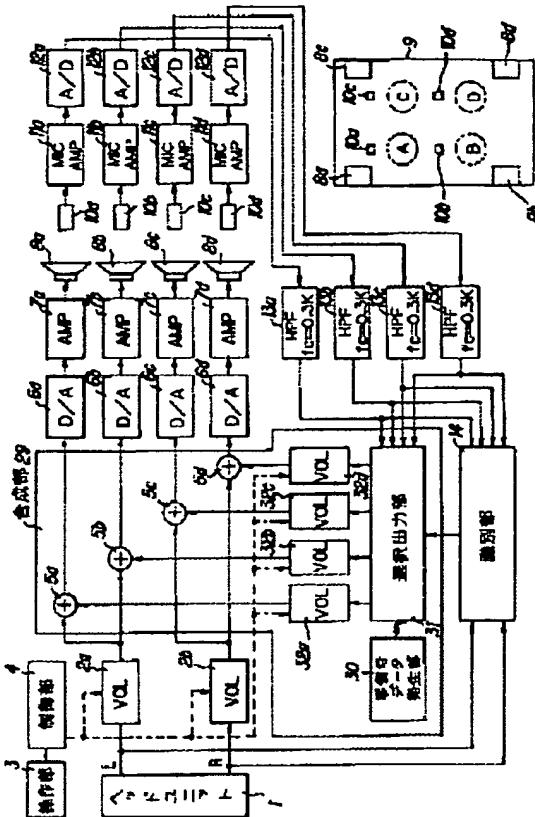
APPLICATION DATE : 20-12-93  
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APPLICANT : ALPINE ELECTRON INC;

INVENTOR : OTAKI TAKAKO;

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TITLE : AUDIO DEVICE FOR VEHICLE



ABSTRACT : PURPOSE: To smoothly perform conversation even when an audio is listened.

CONSTITUTION: Microphones 10a-10d pick up individually voices of each crew member A-D are provided in a vehicle 9 in which four loudspeakers 8a-8d are provided at each side of before and behind, left and right, and it is discriminated whether a crew member speaks or not and a crew member of which seat speaks from output of each microphone and an output of a head unit 1 by a discriminating section 14. And when nobody speaks, a synthesizing section 29 makes each loudspeaker 8a-8d output only music based on a discriminated result by the discriminating section 14. For example, when a crew member A speaks, a voice signal picked up by the microphone 10a is synthesized with an audio signal of a L channel and a R channel and outputted from the loudspeakers 8b-8d provided near crew members B-D.

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